

LISTING OF CLAIMS

This listing of claims replaces all prior versions and listings of claims in the patent application.

Claims 1-15. (canceled)

Claim 16. (currently amended) A communication system, comprising:

at least one radio base station to which radio network terminating ~~facilities~~units for connecting communication terminals can be connected;

first communication relations provided between the radio base station and the radio network terminating ~~facilities~~units within a first communication network; and

additional transmission and switching means in the radio network terminating ~~facilities~~units for implementing at least one further communication network, wherein the additional transmission and switching means provide for implementing additional wireless communication relations between the radio network terminating ~~facilities~~units.

Claim 17. (previously presented) A communication system as claimed in claim 16, further comprising:

at least one further radio network terminating facility, wherein the additional wireless communication relations are switched via the at least one further radio network terminating facility.

Claim 18. (previously presented) A communication system as claimed in claim 16, wherein the at least one further communication network is provided for implementing additional wireless communication relations in a home domain.

Claim 19. (previously presented) A communication system as claimed in claim 16, wherein the first communication network is a public communication network and the at least one 30 further communication network is a private communication network.

Claim 20. (previously presented) A communication system as claimed in claim 16, wherein the additional transmission and switching means includes switching and transmission routines, implemented as programs, for implementing the additional wireless communication relations.

Claim 21. (previously presented) A communication system as claimed in claim 16, wherein at least one of a connection-oriented wireless communication network and a connectionless wireless communication network is formed with the aid of the additional wireless communication relations.

Claim 22. (previously presented) A communication system as claimed in claim 16, wherein a self-configuring wireless communication network having a neural network structure is formed with the aid of the additional wireless communication relations.

Claim 23. (previously presented) A communication system as claimed in claim 21, wherein information to be transmitted is inserted into packet-oriented data streams and the packet-oriented data streams are switched via the wireless communication network, and wherein services based on Internet protocol are implemented with the aid of the wireless communication network.

Claim 24. (previously presented) A communication system as claimed in claim 22, wherein information to be transmitted is inserted into packet-oriented data streams and the

packet-oriented data streams are switched via the wireless communication network, and wherein services based on Internet protocol are implemented with the aid of the wireless communication network.

Claim 25. (currently amended) A communication system as claimed in claim 16, further comprising:

means for implementing the communication relations in the radio base station and in the radio network terminating ~~facilities~~units, wherein data streams to be transmitted from the radio base station to the radio network terminating ~~facilities~~units are transmitted in accordance with at least one of a TDM-oriented, FDM-oriented and CDM-oriented multiple transmission method, and wherein data streams to be transmitted from the radio network terminating units to the radio base station are transmitted according to at least one of a TDMA, CDMA and FDMA access transmission method.

Claim 26. (currently amended) A communication system as claimed in claim 16, wherein the additional wireless communication relations are implemented with the aid of one of ~~an MC-CDMA~~a multi-carrier CDMA multiple access method, a ~~COFDM~~circuit-oriented FDM modulation, and a multiple access method conforming to CDMA.

Claim 27. (currently amended) A communication system as claimed in claim 16, wherein at least one of the radio network terminating ~~facilities~~units includes at least one further connection to an additional communication network.

Claim 28. (previously presented) A communication system as claimed in claim 16, wherein at least one of the radio network terminating units additionally represents a repeater network terminating unit.

Claim 29. (previously presented) A communication system as claimed in claim 16, wherein at least one of the radio network terminating units includes further means for encrypting information to be transmitted with the aid of the additional wireless communication relations.

Claim 30. (previously presented) A communication system as claimed in claim 16, wherein at least one of the radio network terminating units includes further means for compressing information to be transmitted with the aid of the additional wireless communication relations.

Claim 31. (previously presented) A communication system as claimed in claim 16, wherein at least one the radio network terminating units includes means for implementing a wireless packet-oriented communication system according to ITU Recommendation H.323 or H.324.